

## CHANGE REQUEST

**33.234 CR 062** rev - Current version: **6.3.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

**Proposed change affects:**  UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	Fallback to full authentication		
<b>Source:</b>	NOKIA, Ericsson		
<b>Work item code:</b>	WLAN	<b>Date:</b>	23/02/2005
<b>Category:</b>	<b>F</b>	<b>Release:</b>	Rel-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	In N1-050354 it mentions in the current version of the draft-haverinen-pppext-eap-sim and draft-arkko-pppext-eap-aka the pseudonym can only be sent during a full re-authentication procedure, not during a fast re-authentication procedure.
<b>Summary of change:</b>	Add a Note as in N1-050354.
<b>Consequences if not approved:</b>	This may lead to misunderstanding of "Fallback to full authentication from fast re-authentication".

<b>Clauses affected:</b>	6.1.4.3						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Y	N						
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X							
<input checked="" type="checkbox"/>							
<b>Other comments:</b>							

\*\*\* BEGIN OF CHANGE \*\*\*

### 6.1.4.3 Fallback to full authentication from fast re-authentication

In the EAP SIM/AKA processes for full authentication, the 3GPP AAA server sends to the WLAN UE the temporary identities to be used in the next authentication process. This next authentication process may be either a full authentication process or a fast re-authentication process, depending on the type of temporary identity received by the WLAN UE. If the WLAN UE receives a fast re-authentication identity, it shall use it in the next authentication, thus indicating to the AAA server that a fast re-authentication must be performed. If the WLAN UE receives only a pseudonym, the WLAN UE shall use it in the next authentication process and hence a full authentication will be started.

Whenever a fast re-authentication identity is received by the WLAN UE, this shall be the temporary identity used in the next authentication process, regardless if a pseudonym was received as well. The full authentication EAP Request/SIM Challenge and EAP Request/AKA Challenge messages allow both types of identity to be sent. However, in the messages EAP Request/AKA Re-authentication and EAP Request/SIM Re-authentication it is possible to send only re-authentication identities, according to references [4] and [5].

If the home network decides to initiate fast re-authentications, it shall indicate it to the WLAN UE by means of including the fast re-authentication identity in a full authentication process. If, later on, the home network decides to perform again full authentication, the 3GPP AAA server shall indicate it to the WLAN UE requesting a pseudonym after reception of the re-authentication identity. For this reason, whenever the AAA server sends a fast re-authentication identity to the WLAN UE, it shall include as well a pseudonym [when allowed by the draft-haverinen-pppext-eap-sim \[5\] and draft-arkko-pppext-eap-aka \[4\]](#), so that the WLAN UE keeps it in case of fallback to full authentication, requested by the AAA server.

NOTE: In the current version of the draft-haverinen-pppext-eap-sim [5] and draft-arkko-pppext-eap-aka [4] the pseudonym (i.e. AT\_NEXT\_PSEUDONYM attribute) can only be sent during a full re-authentication procedure (i.e. in EAP-Request/SIM/Challenge or EAP-Request/AKA/Challenge).

In case of EAP AKA, the AAA server, when it decides to perform full authentication again, shall use the message EAP Request/AKA Identity with the parameter AT\_FULLAUTH\_ID\_REQ. The WLAN UE shall then return the pseudonym according to reference [4].

In case of EAP SIM, the AAA server, when it decides to perform full authentication again, shall use the message EAP Request/SIM/Start with the parameter AT\_FULLAUTH\_ID\_REQ. The WLAN UE shall then return the pseudonym, according to reference [5].

\*\*\* END OF CHANGE \*\*\*